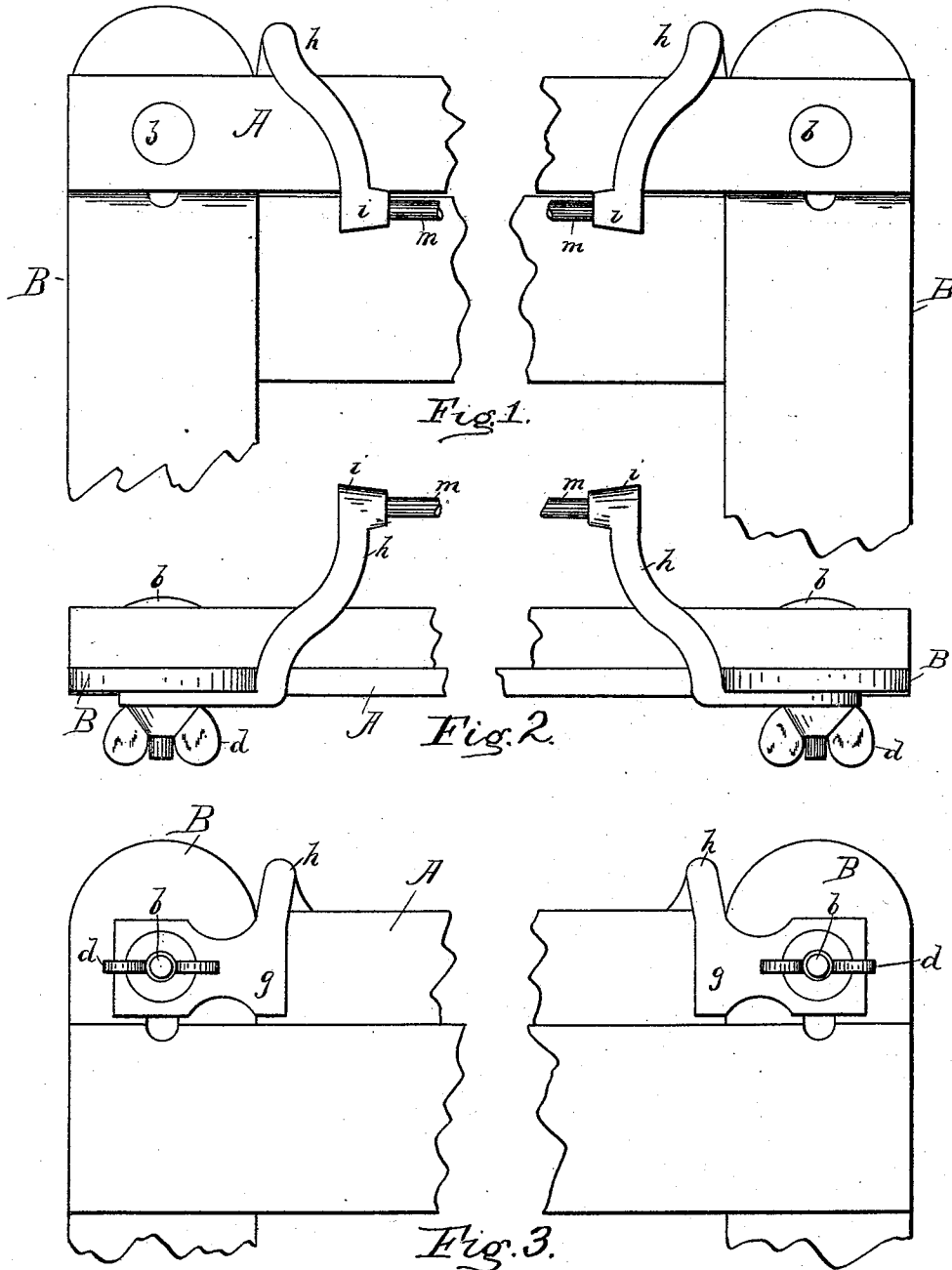


(No Model.)

C. McCARTY.
SHUTTLE GUARD FOR LOOMS.

No. 471,522.

Patented Mar. 22, 1892.



WITNESSES
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CHARLES McCARTY, OF FALL RIVER, MASSACHUSETTS.

SHUTTLE-GUARD FOR LOOMS.

SPECIFICATION forming part of Letters Patent No. 471,522, dated March 22, 1892.

Application filed August 24, 1891. Serial No. 403,525. (No model.)

To all whom it may concern:

Be it known that I, CHARLES McCARTY, of Fall River, in the county of Bristol, State of Massachusetts, have invented certain new and useful Improvements in Shuttle-Guards for Looms, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which said invention appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is an elevation of a portion of a loom, showing my improved shuttle-guard in position; Fig. 2, a top plan view of the same, and Fig. 3 an elevation looking from the side opposite that in Fig. 1.

The parts shown in said figures are centrally broken away to save space.

Like letters and figures of reference indicate corresponding parts in the different figures of the drawings.

My invention relates especially to shuttle-guards and means for mounting the same on looms; and it consists in certain novel features hereinafter fully set forth and claimed, the object being to produce a simpler, cheaper, and more effective device of this character than is now in ordinary use.

The nature and operation of the improvement will be readily understood by all conversant with such matters from the following explanation:

In the drawings, A represents the hand-rail, and B B the lay-swords, the hand-rails being adjustable thereon by bolts *b* in the usual manner. Said bolts are provided with thumb-nuts *d* at the back of the sword. A shuttle-guard of ordinary construction comprises an offset-wire arranged longitudinally of and extending below the lower edge of the hand-rail, said wire being provided with eyes, through which the bolt *b* passes and which is jammed by the head of said bolt against the outer face of the rail. The frequent adjustment of the rail by means of its bolts and the

vibration of the loom in weaving causes the eyes of said guard to readily wear into the wood of the rail, the parts frequently working loose therefrom and needing constant adjustment. In my improvement these objections are overcome. A bracket *g* is provided with an opening through which the bolt *b* may pass, said bracket being approximately rectangular in shape and affording a broad bearing against the back of the sword. From the inner end of the bracket an arm *h* projects vertically and laterally, said arm being bent or curved downward to pass over the top of the hand-rail and project slightly in front of and below the lower edge thereof. One of said brackets is secured to each sword by its bolt and nut. The outer ends of said arms are in alignment and are provided with sockets *i*. A rigid rod *m* is secured in said socket, said rod when thus disposed being in position to serve as a guard-rail for the shuttle. The rod may be secured in the bracket-arm by any suitable means instead of employing the socket *i*. By mounting the bracket at the back of the sword and projecting the same over the hand-rail, as described, all wear on the rail from the shuttle-guard is obviated. Moreover, the guard may be much more readily adjusted, it being disposed adjacent to the nuts *d*.

Having thus explained my invention, what I claim is—

In a shuttle-guard, the combination of the swords, the hand-rail secured to the swords, brackets secured adjustably to the back of the swords and having vertically and laterally projecting arms passing over the top of the hand-rail and curving downwardly and slightly in front of and below the lower edge of the hand-rail, and a horizontal rod connecting the ends of said arms, substantially as described.

CHARLES McCARTY.

Witnesses:

WM. BOW,
CHAS. RICH.